

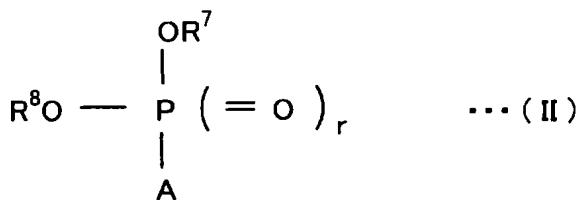
IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A lubricating oil composition comprising:

(A) a base oil comprising a hydrocarbon compound at least one compound selected from the group consisting of (i) dimerized norbornanes and (ii) hydrogenated dimers, trimers and tetramers of norbornanes and/or norbornenes having a cohesive energy density at 40°C of 0.180 0.200 GPa or more, said base oil having a kinematic viscosity at 40°C of 5 to 150 mm²/s, and

(B) a phosphoric ester containing a hydrocarbon group having a thioether bond, wherein said base oil (A) comprises at least one compound selected from the group consisting of (i) dimerized norbornanes, (ii) hydrogenated dimers, trimers and tetramers of norbornanes and/or norbornenes 50 to 600 ppm by mass in terms of the phosphorous content of the lubricating oil composition of an acid phosphoric ester or phosphorous ester represented by the general formula (II):



wherein r is 0 or 1; when r is 0, A is a hydroxyl group, and when r is 1, A is a hydrogen atom or a hydroxyl group; and R⁷ and R⁸ are a hydrogen atom or a hydrocarbon group having 1 to 18 carbon atoms which may have one or more thioether bonds, and at least one of R⁷ and R⁸ is a hydrocarbon group having a thioether bond,

wherein said cohesive energy density (CED) at 40°C is calculated from the following formula (1):

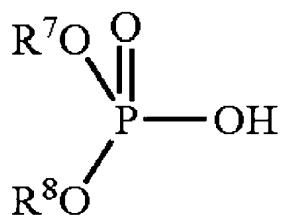
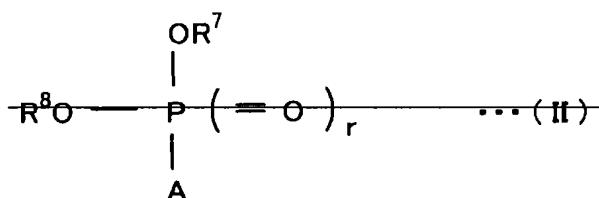
$$\text{CED (GPa)} = 0.0204(d/\text{MW}) \cdot T \cdot \ln(2.51\eta \cdot \text{MW}) \quad (1)$$

wherein d is a density (g/cm³) at 40°C; MW is a molecular weight (g/mol); T is an absolute temperature (K); and η is a kinematic viscosity (mm²/s) at 40°C.

2. (Cancelled)

3. (Currently Amended) A lubricating oil composition according to claim 1 or 2, wherein said base oil (A) comprises at least one compound selected from the group consisting of dimerized norbornane.

4. (Currently Amended) A lubricating oil composition according to Claim 1 any one of claims 1 or 2, comprising an ~~wherein said phosphoric ester (B) containing a hydrocarbon group having a thioether bond is an acid phosphoric ester or phosphorous ester represented by the general formula (II):~~



wherein r is 0 or 1; when r is 0, A is a hydroxyl group, and when r is 1, A is a hydrogen atom or a hydroxyl group; and R⁷ and R⁸ are respectively a hydrogen atom or a hydrocarbon group

having 1 to 18 carbon atoms which may have one or more thioether bonds, and at least one of R⁷ and R⁸ is ~~the~~ a hydrocarbon group having a thioether bond.

5. (Cancelled)

6. (Previously Presented) A lubricating oil composition for continuously variable transmission according to claim 11, wherein said composition comprises overbased calcium sulfonate having a base value of 50 to 700 mg KOH/g.

7. (Currently Amended) A lubricating oil composition according to claim 1 ~~or~~ 2, further comprising (D) a sulfur containing anti-wear agent.

8. (Currently Amended) A lubricating oil composition according to claim 1 ~~or~~ 2, wherein said lubricating oil composition is a lubricating oil composition for a metallic belt type continuously variable transmission.

9. (Currently Amended) A lubricating oil composition according to claim 1 ~~or~~ 2, wherein said lubricating oil composition is a lubricating oil composition for a chain type continuously variable transmission.

10. (Currently Amended) A lubricating oil composition according to claim 1 ~~or~~ 2, wherein said lubricating oil composition is a lubricating oil composition for a traction drive type continuously variable transmission.

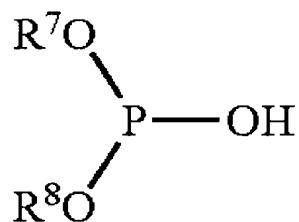
11. (Currently Amended) A lubricating oil composition according to claim 1 or 2, wherein said composition further comprises (C) ~~at least one compound selected from the group consisting of phosphoric esters and amine salts thereof, and an overbased calcium sulfonate.~~

12. (Currently Amended) A lubricating oil composition according to claim 1 or 2, wherein said lubricating oil composition is a lubricating oil composition for a continuously variable transmission.

13. (Previously Presented) A lubricating oil composition according to claim 1, wherein said base oil (A) comprises at least one compound selected from the group consisting of hydrogenated dimers, trimers and tetramers of norbornanes.

14. (Previously Presented) A lubricating oil composition according to claim 1, wherein said base oil (A) comprises at least one compound selected from the group consisting of hydrogenated dimers, trimers and tetramers of norbornenes.

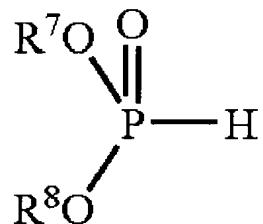
15. (New) A lubricating oil composition according to Claim 1, comprising a phosphorous ester represented by the general formula:



wherein R⁷ and R⁸ are a hydrogen atom or a hydrocarbon group having 1 to 18 carbon atoms which may have one or more thioether bonds, and at least one of R⁷ and R⁸ is a hydrocarbon group having a thioether bond.

16. (New) A lubricating oil composition according to claim 1, wherein the at least one compound selected from the group consisting of (i) dimerized norbornanes and (ii) hydrogenated dimers, trimers and tetramers of norbornanes and/or norbornenes has a cohesive energy density at 40°C of 0.211 GPa or more.

17. (New) A lubricating oil composition according to Claim 1, comprising a phosphorous ester represented by the general formula:



wherein R⁷ and R⁸ are a hydrogen atom or a hydrocarbon group having 1 to 18 carbon atoms which may have one or more thioether bonds, and at least one of R⁷ and R⁸ is a hydrocarbon group having a thioether bond.

18. (New) A lubricating oil composition according to claim 4, comprising an acid phosphoric ester selected from the group consisting of mono- and di-(hexylthioethyl)hydrogen phosphate, mono- and di-(octylthioethyl)hydrogen phosphate,

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mono- and di-(dodecylthioethyl)hydrogen phosphate, mono- or di-

(hexadecylthioethyl)hydrogen phosphate, and mixtures thereof.